



ELSEVIER

Computer Physics Communications 109 (1998) 276–277

Computer Physics
Communications

Contents to volume 109

Computational physics

- Stoll, E.
A fast cluster counting algorithm for percolation on and off lattices 1
- Meyer, P., M. Fromm, J.E. Groetz, F. Torrealba and A. Chambaudet
Simulation of processes in a SSNTD exposed by monoenergetic neutrons 6
- Lehoucq, R.B., S.K. Gray, D.-H. Zhang and J.C. Light
Vibrational eigenstates of four-atom molecules: a parallel strategy employing the implicitly restarted Lanczos method 15
- Zhang, G.P.
Modified explicitly restarted Lanczos algorithm 27
- Ritley, K.A., V.J. Ghosh, K.G. Lynn, M. McKeown and D.O. Welch
POS-SPRITE – an extensible calculation of positron and electron implantation in metals 93
- Ziegler, U.
NIRVANA⁺: An adaptive mesh refinement code for gas dynamics and MHD 111
- Taylor, M.B., G.D. Barrera, N.L. Allan, T.H.K. Barron and W.C. Mackrodt
Shell: a code for lattice dynamics and structure optimisation of ionic crystals 135
- Montvay, I.
Quadratically optimized polynomials for fermion simulations 144
- Thorleifsson, G. and M. Falcioni
Improved algorithms for simulating crystalline membranes 161
- Omelyan, I.P.
Numerical integration of the equations of motion for rigid polyatomics: The matrix method 171

Computer programs in physics

- García de la Vega, J.M. and B. Miguel
Determination of momentum expectation values for polyatomic molecules 34
- Garrett, B.C., G.C. Lynch, T.C. Allison and D.G. Truhlar
ABCRATE: A program for the calculation of atom–diatom reaction rates 47
- Peysson, Y. and M. Shoucri
An approximate factorization procedure for solving nine-point elliptic difference equations. Application for a fast 2-D relativistic Fokker–Planck solver 55
- Mayer, A., A. Castiaux and J.-P. Vigneron
Electronic Green scattering with n -fold symmetry axis from block circulant matrices 81
- O'Rourke, S.F.C. and D.S.F. Crothers
LMD – Calculation of longitudinal momentum distributions in the single ionization of helium by ion impact 184

Zhang, B.

ZPC 1.0.1: a parton cascade for ultrarelativistic heavy ion collisions

193

Kim, J.S., J.C. Tolédano and P. Tolédano

Monte Carlo optimization applied to symmetry breaking

207

Papageorgiou, D.G., I.N. Demetropoulos and I.E. Lagaris

MERLIN-3.0. A multidimensional optimization environment

227

Papageorgiou, D.G., I.N. Demetropoulos and I.E. Lagaris

The Merlin Control Language for strategic optimization

250

Rybowicz, M.

Book review: Introduction to Scientific Programming. Computational Problem Solving using Maple and C by Joseph L. Zachary (Springer, Berlin, 1996) ISBN 0-387-94630-6

90